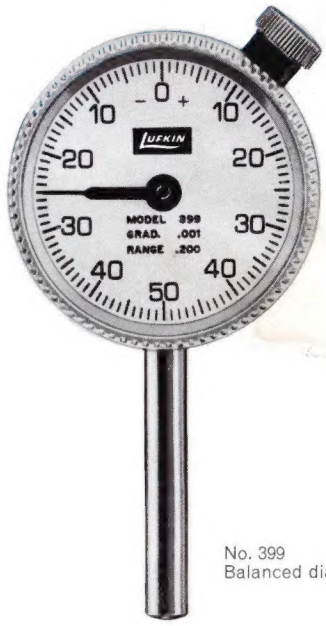
UNIVERSAL DIAL TEST INDICATORS GIVE ACCURACY, LONG LIFE, VERSATILITY

No. 299
Continuous dial



No. 399
Balanced dial

The model 299 and 399 indicators are perpendicular type indicators of unusual versatility. They also incorporate design and construction features that impart, and help to maintain, accuracy.

Simplicity of construction excludes the customary train of gears and helps reduce friction. For instance, the spiral and hairspring assembly that transmits contact point movement has a crowned, stone ruby mounting for low friction. Insert bearings are line reamed for accurate mountings which result in accurate readings. Large figures of modern design are easy to read. A new, fine-pointed design for the dial hand eliminates confusion in reading. Improved bezel lock assembly is staked into the case so that it will not unscrew and become lost. The unique hole attachment screws directly into indicator base, eliminating the need for supporting arms.

Models 299 and 399 adapt to all on-machine and surface plate inspection operations. Total range, .200"; per revolution, .100"; minimum graduation, .001". Model 299 has continuous dial, 0 to 100; model 399 has balanced dial, 0-50-0. Both models have bezel clamps.

ATTACHMENTS

Carefully-selected attachments broaden the variety of jobs that can be accommodated by the 299 and 399 Universal Dial Test Indicator. Included are three different contact points, hole attachment, sleeve attachments, tool post holder and clamp.

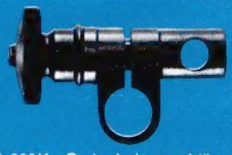
No. 299C-399C
3/16" diameter
contact point

No. 299D-399D
3/8" diameter
contact point

No. 299E-399E
½" diameter
contact point

No. 299F-399F—Hole attachment

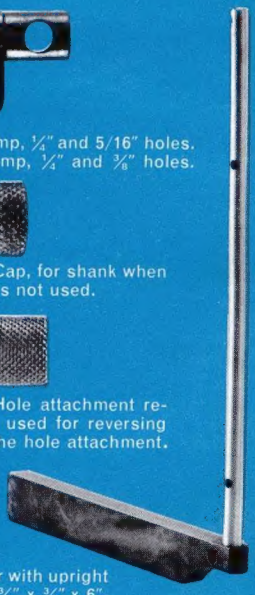
No. 299G-399G
Arbor clamp
1¼" capacity
for flat or round
with spindle.



No. 299K-399K—Swivel clamp, ¼" and 5/16" holes.
No. 299L-399L—Swivel clamp, ¼" and ⅜" holes.

No. 299N-399N—Cap, for shank when hole attachment is not used.

No. 299P-399P—Hole attachment reversing sleeve is used for reversing the direction of the hole attachment.



No. 299H-399H—Tool post holder with upright spindle. Holder, or base, is ⅜" x ¾" x 6".

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DIAL TEST INDICATOR ASSORTMENTS

No. 299A

No. 2399

NO. 299A

Assortment consists of one of each of the following: 299 Continuous Dial Indicator; 299C-3/16" diameter Contact Point; 299D-3/8" diameter Contact Point; 299E-1/2" diameter Contact Point; 299F Hole Attachment; 299G Arbor Clamp; 299H Tool Post Holder; 299K Swivel Clamp (1/4" and 5/16" holes); and 299N Cap. Packed in attractive black vinyl covered metal case with formed insert.

NO. 399 A

Same assortment as 299A, except furnished with a 399 Balanced Dial Indicator.

NO. 299B

Assortment consists of a 299 Continuous Dial Indicator plus one of each of the following contact points: 299C-3/16" diameter; 299D-3/8" diameter and 299E-1/2" diameter. Packed in sturdy cardboard box.

NO. 399B

Same assortment as 299B, except furnished with a 399 Balanced Dial Indicator.

A complete range of set-ups for practically every type of indicating can be made from the tools and attachments in the 2299 or 2399 assortments. A magnetic base holder is included that attaches instantly to any round or flat ferrous surface. The post swivels in a ball joint and locks securely with a turn of the large, knurled nut. A friction joint in the post increases the range of adjustments and a fine adjustment screw provides final, precise settings. Interchangeable posts and adapter are included.

NO. 2299

Assortment consists of one of each of the following: 299 Continuous Dial Indicator; 101 Magnetic Base Tool Holder; 100-023 Post (7/32" diameter x 4 3/8" long); 100-024 Post (7/32" diameter x 1 1/2" long); 100-016 Adapter; 299K Adjustable Spindle Clamp; 299C-3/16" diameter Contact Point; 299D-3/8" diameter Contact Point; 299E-1/2" diameter Contact Point; 299F Hole Attachment. Packed in attractive black vinyl covered metal case with formed insert.

NO. 2399

Same assortment as 2299, except furnished with a 399 Balanced Dial Indicator.

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